CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS for insertion in the following Friday's issue are accepted up to **First post on Monday,** at Dorset House, Stamford Street, London, S.E.1.

THE CHARGE for advertisements in this section is 2/- per line (approx. 8 words) per insertion, minimum 2 lines 4/-, or for display advertisements 30/- per inch, with a minimum of one inch. Where the advertisement includes a Box Number there is an additional charge of 6d. for postage of replies.

SITUATIONS WANTED.—Three insertions under this heading can be obtained for the price of two if ordered and prepaid with the first insertion.

REPLIES TO advertisements published under a Box Number if not to be delivered to any particular firm or individual should be accompanied by instructions to this effect, addressed to the Manager of the ELECTRICAL REVIEW. Letters of applicants in such cases cannot be returned to them. The name of an advertiser using a Box Number will not be disclosed. All replies to Box Numbers should be addressed to the Box Number in the advertisement, c/o ELECTRICAL REVIEW, Dorset House, Stamford Street, London, S.E.1. Cheques and Postal Orders should be made payable to ELECTRICAL REVIEW LTD. and crossed.

Original testimonials should not be sent with applications for employment.

SITUATIONS VACANT

WEST MIDLANDS JOINT ELECTRICITY AUTHORITY

Appointment of Assistant Resident Engineer

THE above-named Authority invite applications for the position of Assistant Resident Engineer at a generating station in the West Midlands, Class K, Grade 4, on the National Joint Board Schedule, present salary £679 per annum.

The post will be a contributory one under the Local Government Superannuation Act, 1937, and the selected candidate will have to pass a medical examination.

Candidates must have had a thorough works training, and a wide experience involving senior responsibility in the operation and maintenance of a large electricity generating station. Corporate membership of either the Institution of Mechanical Engineers or the Institution of Electrical Engineers will be an advantage.

Applications, stating age, education, experience and present occupation, accompanied by copies of three recent testimonials, and endorsed "Assistant Resident Engineer," should reach the undersigned not later than the 7th December, 1942.

Canvassing, either directly or indirectly, will disqualify.

H. F. CARPENTER,
Clerk and Manager.

Phœnix Buildings,
Dudley Road,
Wolverhampton.
9th November, 1942. 2783

COUNTY BOROUGH OF BURTON-UPON-TRENT

Electricity Department—Shift Engineer

APPLICATIONS are invited for the above post. The appointment will be in accordance with the National Joint Board Conditions of Service, Class F, Grade 8.

The person appointed must have had experience in the operation of modern Steam Generating Plant.

The appointment will be terminable by one month's written notice on either side; will be subject to the Local Government Superannuation Act, 1937, and to the Corporation's rules and regulations relating to Sick Pay, and the selected candidate will be required to pass a medical examination.

Applications, stating age, particulars of training and experience and accompanied by three recent testimonials, should be forwarded in sealed envelopes endorsed "Shift Engineer" to the Borough Electrical Engineer, Church Croft, Horninglow Street, Burton-upon-Trent, not later than Friday, 27th November, 1942.

Canvassing, directly or indirectly, will be deemed a disqualification.

H. BAILEY CHAPMAN,
Town Clerk.

Town Hall,
Burton-upon-Trent.
9th November, 1942. 2763

ELECTRIC Lamp Manufacturers in North London require experienced Supervisors for manufacturing departments. Write, with details of age, experience, etc., to—Box E.R., c/o 5, New Bridge Street, E.C.4. 2769

APPOINTMENT OF ELECTRICAL ENGINEER AND MANAGER

APPLICATIONS are invited for the office of Engineer and Manager of an Electricity Undertaking.

Candidates must have held the appointment of Chief Engineer, Deputy Engineer or Chief Engineering Assistant in an Electricity generating and distribution undertaking.

The commencing salary will be £1,875.

A motor car allowance of £100 per annum will be made unless and until a car shall be made available for the use of the officer appointed.

Preference will be given to applicants under 50 years of age and to a Chartered Electrical Engineer.

Form of application and the particulars of the duties of the office can be obtained from the Secretary, Incorporated Municipal Electrical Association, Wellington House, 125/130 Strand, London W.C.2.

The closing date for the receipt of applications is first post on Monday, 30th November, 1942.

Canvassing in any form is strictly prohibited, and will disqualify. 2762

AIR Ministry, Station Engineers, for Provinces. Must have all-round experience of installing and maintaining mechanical and electrical plant and knowledge of H.T. distr. systems, incl. substation equip. Salary £320-£400 p.a. acc. to qualn. and exp., plus £19 12s. war bonus p.a. An overtime scheme is in operation enabling payment to be made varying from £4 to £14 10s. in any period of four consecutive weeks, dependent on the number of hours worked. A lodging allowance up to 45s. per week is payable in certain cases if candidate is forced to maintain his family apart from himself, due solely to the acceptance of an appointment. Write, stating name and address of present employer, age and full particulars of qualifications to the Central (Technical and Scientific) Register, Section D.419, Sardinia Street, Kingsway, London, W.C.2. 2765

ELECTRIC Lamp Manufacturers, S.W. London area, require Storekeeper and some experienced Supervisors for manufacturing departments. Letters to—Box 2766, c/o The Electrical Review.

LAMP Salesmen required, all areas, by one of the largest non-Ring companies. Only men with recent experience of similar employment will be entertained. Good basic salary, expense allowance and commission. Apply—Box 2760, c/o The Electrical Review.

LARGE multiple Catering Company invites applications for the position of executive in charge of kitchen planning and equipping. The position is to-day one of real national importance and also has excellent post-war possibilities for progression. Applicants, whose theoretical knowledge must be extensive, should also be able to prove their ability in practice. Preference shown to those holding a B.Sc. degree or a professional engineering qualification. The company, which is old-established, progressive and successful, is prepared to pay remuneration in comparison with ability. Please reply, giving fullest information, including all details of past experience, to—Box 2775, c/o The Electrical Review.

SHIFT Charge Engineer wanted for industrial power station, essential works. Load 4,000 kW. Wages £6 5s. for 48-hour week. Applicants must have had a good general training in mechanical engineering and possess a sound knowledge of H.P. boilers and general power station practice. Full details of training and experience to—Power and Electrical Engineer, Nitrogen Fertilisers Ltd., Flixborough, nr. Scunthorpe, Lincs. 2759

APPOINTMENTS FILLED

Dissatisfaction having been so often expressed that unsuccessful applicants are left in ignorance of the fact that the position applied for has been filled, may we suggest that Advertisers notify us to that effect when they have arrived at a decision. We will then insert a notice free of charge under this heading.

BOX 2675—Second in Charge.

SITUATIONS WANTED

ADVERTISER wishing to make a change, now employed with wholesale electrical distributors (E.W.F.), seeks position as sales or branch manager or special representative for London and district. 30 years' experience, Associ.I.E.E., can influence good business amongst large users and works if engaged with a firm of repute.—H. Davis, 108, Dartmouth Rd., N.W.2. 8350

AN Electrical Engineer, A.M.I.E.E., mechanical experience, age 42, exempt, free at end of month, desires post. Generation (Diesel), mains distribution, etc., all mechanical plants, etc., maintenance and construction. Strong disciplinarian.—W., 52a, South Road, Southall, Middlesex. 8367

B.Sc. Maths., City and Guilds radio-communication, several years' experience in physical research, including industrial radiology. Responsible post required. —Box 8347, c/o The Electrical Review.

COMMERCIAL Manager seeks position where zeal, energy and initiative will be well appreciated. Accustomed home and export trades electrical undertakings. Write, giving details experience required and salary offered—Box 8320, c/o The Electrical Review.

ELECTRICAL Contractors' Manager, 45, wide experience, Air Ministry and local government departments, general distribution, substation, mercury arc rectification, etc. Car owner. High references.—Box 8330, c/o The Electrical Review.

ELECTRICAL Engineer seeks managerial position, age 43, over twenty years' experience engineer and manager London electrical contractors. Very large experience estimating and carrying out good class general electric wiring installations and equipment. Available immediately.—Box 8321, c/o The Electrical Review.

ELECTRICAL Engineer (28), B.Sc.(Lond.), good all-round experience, desires responsible position in managing capacity.—Box 8370, c/o The Electrical Review.

ENGINEER, returning after short Colonial Service, arriving December, seeks position London or South. Practical and technical experience meters, instruments, distribution and consumers.—Box 2717, c/o The Electrical Review.

MAINS Superintendent seeks change to one of permanent employment requiring initiative and organising ability, 48, consider any post in the industry, preferably administrative and supervisory.—Box 8364, c/o The Electrical Review.

OFFICE or Staff Manager desires change, 12 years' experience similar capacity electrical firm. Replies, stating salary, etc., etc., to—Box 8319, c/o The Electrical Review.

PROFESSIONAL Electrical Engineer desires post as chief engineer, maintenance or managing engineer. Extensive experience planning installations and plant, armature winding, etc., administration, and organizer.—Box 8346, c/o The Electrical Review.

FOR SALE

400-VOLTS, 3-PHASE, 50-CYCLES SWITCHGEAR BY ENGLISH ELECTRIC CO.

4-Panel Ironclad Industrial Oil Immersed Switchboard, totally enclosed, comprising:—

1 × 1,000-amp. Switch Cubicle.
2 × 500-amp. ,, ,, Draw-out type, SXA on Stands.
1 × 20-amp. ,, ,, ,, ,, SXD on Stands.

Complete with Busbars.

ALSO

1 × 500-amp. Switch Cubicle, Draw-out type, SXA
1 × 500-amp. ,, ,,

MIDLAND COUNTIES ELECTRICAL ENGINEERING CO., LTD.,
GRICE STREET, WEST BROMWICH.

44

SPENBOROUGH URBAN DISTRICT COUNCIL

Electricity Department

THE Council is prepared to receive tenders for the purchase and removal of the following plant:—

FIVE-PANEL unit type industrial switchboard (Geo. Ellison Ltd.) for 400/230 volts, 3-phase, 4-wire, 50 cycles A.C. supply.

Panel "A." One 3-phase and neutral busbar chamber with 3 × 1,000 amps. and 1 × 300 amps. busbars, metalclad, air enclosed, with inspection lids, pedestal mounted.
252 amperes drawout type oil immersed triple pole and neutral free handle circuit breaker with mechanical interlocks, mounted in front of busbar chamber.
Three adjustable overload coils, 252 amperes, with adjustable time lags.
Three 6" dial M.I. ammeters, 0/400, with current transformers.
One Cat. 117/3 dividing box for outgoing PILCDSTA cable on underside of busbar chamber.
Panel "B." Exactly as Panel "A."
Panel "C." Exactly as Panel "A."
Panel "D." Exactly as Panel "A."
Panel "E." One 3-phase and neutral busbar chamber with 3 × 1,380 amps. and 1 × 300 amps. busbars, metalclad, air enclosed, with inspection lids, pedestal mounted.
380 amperes drawout type oil immersed triple pole and neutral free handle circuit breaker with mechanical interlocks, mounted in front of busbar chamber.
Three adjustable overload coils, 380 amperes, with adjustable time lags.
Three 6" dial M.I. ammeters, 0/600, with current transformers.
One 8" dial M.I. voltmeter, 0/250, with six-way switch mounted over busbar chamber.
Wood board, mounted under busbar chamber, for four incoming single V.I.R. cables.

Conditions and Form of Tender, also official permit to view, may be obtained on application to Mr. C. Booth, A.M.I.E.E., Engineer and Manager, Electricity Offices, 24, Market Street, Cleckheaton.

Tenders, endorsed "Purchase of Switchgear," should be in the hands of the Clerk of the Council, Town Hall, Cleckheaton, on or before the 5th December, 1942.

J. H. LINFIELD,
Town Hall, Clerk of the Council.
Cleckheaton. 2780

CITY OF MANCHESTER

Electricity Department

PLANT FOR SALE

TENDERS are invited for the purchase, dismantling, loading and removal from site of the following PLANT:—

6 250-kVA Transformers, 6,600/420-30-40 volts.
1 60-kVA Transformer, 6,600/220-26-32 do.
1 25-kVA Transformer, 6,600/230 do.
2 500-kVA Transformers, 6,600/420-30-40 do.
3 150-kVA Transformers, 6,600/200-10-20-30-40 volts. (air-cooled)
1 11,500-kVA Regulator, 33-kV.
2 500-kVA Transformers, 6,600/420.
2 500-kVA Transformers, 11,000/6,600.

Conditions and Form of Tender, also official permit to view the plant, may be obtained on application to Mr. H. C. Lamb, Chief Engineer and Manager, Electricity Department, Town Hall, Manchester, 2.

Tenders to be delivered by 10 o'clock a.m. on Thursday, 3rd December, 1942.

R. H. ADCOCK,
Town Hall, Town Clerk.
Manchester, 2.
11th November, 1942. 2779

FOR SALE

LOT 1.—Verity 3-machine Generator Set, with 15-h.p., 400-volt, 1,500-r.p.m. squirrel cage motor coupled to one 5½-kW, 220-volt, compound interpolar D.C. generator at each end. Unused equipment, new about 1930. Ball bearings throughout. Complete with oil star delta switch fuse and two regulators £120

LOT 2.—Motor Alternator Set, without bedplate, with 17½-h.p., 440-volt Electromotors D.C. motor coupled to 20-kVA, 220-volt, 3-phase, 50-cycle, 1,000-r.p.m. star connected Union rotating field alternator, with overhung exciter and Ellison D.C. starter £75

LOT 3.—Siemens Ball-bearing Rotary Convertor, 800-watt, 110-volts D.C. input; 1-kVA, 220-volts, 1-phase, 50-cycles, 0.5 P.F. input, A.C. £10

LOT 4.—Motor Generator Set, 5-h.p., 440-volts, 1,300-r.p.m. Vickers D.C. motor, coupled to 250-amp., 6-volt, 980-r.p.m. Canning generator, with starter and switch-fuse £20

LOT 5.—B.T.H. Balancer Set, consisting of two 1½-h.p., 110-volt, 1,700-r.p.m. D.C. motors coupled together. £15

LOT 6.—4 1-h.p., 210-volt, 750-r.p.m. Siemens D.C. Motors.
1 2-h.p., 250-volt, 1,000-r.p.m. totally enclosed Verity D.C. motor, with pulley and slide bed.
1 3-h.p. (approx.) D.C. motor.
1 Motor Generator Set, less motor, 1.2-kW, 240-volt E.P.E. shunt ball bearing generator on cast-iron bed.
1 unused Ellison 50-amp. double-pole ironclad mill type circuit breaker £40

LOT 7.—10-h.p. single-cylinder Gas Engine (incomplete).
35-kVA, 6,000/454-volt, 25-cycle transformer £5

LOT 8.—14 Ammeters between 7 and 300 amps., mostly 6″ pedestal A.C. instruments. Also—
4 voltmeters. All modern instruments.
Set 4 variable resistances.
Set 2 ,, ,,
Shunt regulator.
1-kW, 3-phase, 400-volt autotransformer £35

Lots 1, 2 and 7 offered where lying, remainder loaded on site Birmingham. Unsold lots go to best offer received before 15th December, 1942.—Apply—Box 8373, c/o The Electrical Review.

GENERATORS FOR SALE

TWO duplicate 45-kW, 220-volt LAURENCE SCOTT compound interpolar Generators, speed 400 r.p.m. Protected type machines, complete with switchboards.

Two duplicate 40-kW, 220-volt, compound interpolar, protected type BRITISH WESTINGHOUSE Generators, speed 220 r.p.m.

Two duplicate 20-kW, 400/110-volt G.E.C. Rotary Converters, complete with transformers and all switchgear.

NEWMAN INDUSTRIES LIMITED, YATE, BRISTOL
2742

EXCEPTIONAL OPPORTUNITY—NEW PLANT

TWO new, unused, 500-h.p. Synchronous Induction Motors; made by leading maker; 6,600 volts, 3-phase, 50 cycles; pipe ventilated; 3-bearing; 600 r.p.m., complete with cubicle oil-immersed circuit breaker; liquid rotor starter and slide rails.

BRITISH CENTRAL ELECTRICAL CO. LTD.,
6/8, Rosebery Avenue, E.C.1.
Telephone No.: Terminus 2525.
2768

B.T.H. ALTERNATOR FOR SALE

800-kW, 3-phase, 50-cycles, 400-volts, 375-r.p.m. rotating field Alternator, rewound 1942. Single pedestal bearing type for direct coupling to engine, or can be built up for three-bearing machine for belt drive. Complete with all switchgear.

NEWMAN INDUSTRIES LIMITED, YATE, BRISTOL
2741

MOTOR GENERATOR SETS

BUILT to customers' requirements of available new and used plant, many in stock at Wembley—inspection invited. Please send us your enquiries—*we can help you to save time.*

OVER A THOUSAND MACHINES ALWAYS IN STOCK.

DYNAMO & MOTOR REPAIRS, LTD.,
Wembley Park, Middlesex.
Telephone: Wembley 3121 (4 lines).

Also at Phœnix Works, Belgrave Terrace, Soho, Birmingham.
Phone: Northern 0898.
26

SLOW SPEED MOTOR

Client has for disposal, in sound running order, the following surplus motor:—

220-B.H.P. Lancashire Dynamo Motor; slip-ring; 500 volts, 3-phase, 50 cycles; 360 r.p.m. Baseplate size 6 ft. 6 in. by 5 ft.; height 5 ft.; centre line height 2 ft. 6 in. Date of manufacture 1916. The above, complete with Ellison circuit breaker and rotor starter.

BRITISH CENTRAL ELECTRICAL CO. LTD.,
6/8, Rosebery Avenue, E.C.1.
Telephone No.: Terminus 2525.
2767

FOR DISPOSAL

4 750-amp. Triple Pole Oil Circuit Breakers, mounted on slate panels 6′ 6″ × 2′ 6″ × 1½″, complete with current transformers, meters.

1 (as above), on panel 6′ 6″ × 2′ × 1½″, supplied by J. H. Holme, Newcastle.

1 300-amp. Triple Pole Oil Circuit Breaker, mounted on panel 6′ 6″ × 2′ 6″ × 1½″ (Park Royal, London).

All for 500-volts, 3-phase, 50-cycle supply, can be used separately or as one board. Can be seen at any time by appointment. Write—Box 2788, c/o The Electrical Review.

A.C. ELECTRIC MOTORS

400 v., 3-pha., 50 cycles.

200 h.p., 485 revs., S.R., Mather & Platt, 3 bearing type.
100 ,, 585 ,, ,, Brush Elec. Co., 2 ,, ,,
All complete with Ellison Starting Gear.

GREENHALGH BROS.,
Burton's Field Mill, Atherton. Phone 117.
2687

BURDETTE & CO., LTD.

Stock

Reconditioned A.C. and D.C. Motors and Starters Equal to New.

STONHOUSE STREET, CLAPHAM, S.W.4.

Day and night service. MACaulay 4555.
17

NEWMAN INDUSTRIES, LTD., YATE, BRISTOL,

FOR ELECTRICAL PLANT OF ALL KINDS.

24

"G-POWER-UNITS"

We can supply at short notice:

(a) METER-TESTING UNITS.
(b) ELECTRIC-MAGNET-TEST UNITS.
(c) FREQUENCY CHANGERS.
(d) MOTOR GENERATING SETS.
(e) COMBINED ENGINE-DRIVEN SETS.
(f) SPECIAL VOLT GENERATORS AND MOTORS.
(g) VARIABLE SPEED EQUIPMENT.
(h) SPECIAL STARTING AND SWITCHGEAR.
(i) COMPLETE SWITCHBOARDS.
(j) SPECIAL RATIO TRANSFORMERS.

The Specialists for Unusual Plant

J. GERBER & CO., LTD.,

WEMBLEY, MIDDX.

2771

GEORGE COHEN, SONS & CO., LTD.

SUPPLIERS OF SECONDHAND GUARANTEED ELECTRICAL PLANT.

SHOWROOMS AT: WOOD LANE, LONDON, W.12.

Telephone: Shepherds Bush 2070.

STANNINGLEY, NEAR LEEDS.

Telephone: Pudsey 2241.

27

WATER TUBE BOILERS IN STOCK

One 35,000 lbs.	evaporation,	205 lbs.	W.P.
Two 25,000 ,,	,,	250 ,,	,,
Two 12,000 ,,	,,	200 ,,	,,
One 12,000 ,,	,,	160 ,,	,,
One 4,000 ,,	,,	160 ,,	,,

We instal complete, including brickwork. Economisers, Pumps, Piping Valves, Generating Sets and Motors in stock. Please send us your enquiries; we can give immediate delivery.

BURFORD, TAYLOR & CO., LTD.,

Boiler Specialists, Middlesbrough.

Telephone, Middlesbrough 2622.

32

ELECTRIC MOTORS & DYNAMOS

WE hold one of the largest stocks of New and Second-hand Motors. Secondhand machines are thoroughly overhauled. Inspection and tests can be made at our Works.

For Sale or Hire. Send your enquiries to:—

BRITANNIA MANUFACTURING CO., LTD.,
22-23 BRITANNIA STREET,
CITY ROAD, LONDON, N.1.

Telephone: 5512-3 Clerkenwell. 13

FOR SALE

5-h.p., 440-volt, 720-r.p.m. MATHER & PLATT Squirrel Cage Motors. Fitted with cable box and deluge proof covers. Eight for disposal in perfect condition. £160 the lot or £22 each.

NEWMAN INDUSTRIES LIMITED, YATE, BRISTOL

2740

A.C. and D.C. House Service Meters, all sizes, quarterly and prepayment, reconditioned, guaranteed one year. Repairs and recalibrations.—The Victa Electrical Co., 47, Battersea High Street, S.W.11. Tel. Battersea 0780. 19

A.C. and D.C. Motors, all sizes, large stocks, fully guaranteed.—Milo Engineering Works, Milo Road, East Dulwich, S.E.22 (Forest Hill 4422). 8368

A.C. Diesel Set, 15 kVA, 400-3-50, V. belt driven, complete from stock.—"Gerber Power Units," Wembley, Middx. 2772

A.C. Motor, 110 h.p., 25 cycles, 400/3, 700 r.p.m., double shaft extension.—Box 2774, c/o The Electrical Review.

A.C. Motors, ½ h.p. to 40 h.p., 400/3/50, new, immediate delivery.—W. H. Sugden & Co., Ltd., Glenny Road, Barking. 2601

AERIAL Cables, all sizes quoted for; good deliveries against Government contract numbers.—Edwardes Bros., 20, Blackfriars Road, London, S.E.1. 8374

ALTERNATING Diesel Set, 20 kW, 400/3/50, direct coupl. on bed (1932) complete.—Box 2773, c/o The Electrical Review.

BATTERY of Cells, 200 amp. hour, excellent condition. —Box 2695, c/o The Electrical Review.

BEST English Cables, all standard sizes 1/.044 up to 127/.103, good deliveries against Government contract number.—Edwardes Bros., 20, Blackfriars Road, London, S.E.1. 8375

D.C. Motor, 80 h.p., Mather & Platt, 1,450/1,650 r.p.m., 480 v., ball bearing, pipe ventilated, compound wound, ½ hr. rating; with face plate starter and speed regulator.—Box 8349, c/o The Electrical Review.

D.C. Motors, 1 h.p. to 100 h.p., 440/3,500 volts, with starters, immediate delivery.—W. H. Sugden & Co., Ltd., Glenny Road, Barking. 2603

DIESEL Sets, 3 to 900 kW; Kohler Sets, 800, 1,500, 2,000, 3,000 watts, 110/220 v.; 12½-kVA Set, 230/1/50, oil driven. (List).—E. Binns, 156a, Falsgrave Road, Scarborough. 8371

DISPOSAL, approximately 1,000 lbs. fine Wires, various gauges, 27 to 41, silk, cotton and enamelled, brand new, 1s. 6d. per lb.—Gamble, Overton-on-Dee, Ellesmere, Salop. 8363

ELECTRIC Motors, one 6 h.p. and one 3 h.p. A.C., single-phase, 50 cycles, lathe just over 3¾", quantity of 2¼" and 3" gas and air tubing. Also shaft 2¾", and several pulleys and 3 vacuum tanks to rough vacuum pump.—Rival Lamps Ltd., 230-232, Knight's Hill, S.E.27. 2781

FERRANTI and C. & H. D.C. House Service Meters, reconditioned and guaranteed, 5, 10 and 20 A.; quarterly and prepayment.—Kippax Bros., Boot Street, Burnley. Tel. 2363. 33

FOR Disposal, 1 10-kW Shunt Generator, 220 v., with Rheostat; 1 11½-h.p. Shunt Motor, 220 v. D.C.; 1 5-h.p. Shunt Motor, 220 v. D.C.; 2 1-h.p. Shunt Motors, 220 v. D.C.—Box 8365, c/o The Electrical Review.

FOR Sale, Belliss & Morcom twin-cylinder non-compound Steam Engine, with Mather & Platt alternator, 135 kVA, 0.8 P.F., 400 volts, 3-phase, 50 cycles, 500 r.p.m., and Erskine Heap three-panel switchboard. All unused and ready despatch. Apply to—Paterson, Simons & Co., Ltd., London House, Crutched Friars, London, E.C.3. 2764

FOR Sale, one Imperial Gas Engine, 17 h.p., and one 36-h.p. Fielding Gas Engine. Both in first-class working order, shut down owing to installation of substation to provide increased output.—Murad Machine Tool Company Ltd., Southsea Avenue, Watford, Herts. 2784

GENERATING Sets for sale, petrol and crude oil, A.C. and D.C., including 2, 3, 10, 35, 50 kW, 220 volt D.C. and 440/3/50 A.C.—Fyfe, Wilson & Co., Ltd., Bishop's Stortford. 2785

INSTRUMENT and Resistance Wires, Searchlights (sale or hire), T.R.S. Lead and other Cables and Flexibles, surplus Lamp Bulbs, Carbon Rods, Ebonite, Fibre, Hightensite, Porcelain House-wiring and other Cleats, Reels and Knobs, Mirrors, Lenses, etc.—London Electric Firm, Croydon. 2674

LARGE quantity 16mm. and 11mm. solid and cored Arc Lamp Carbons, cheap.—Edwardes Bros., 20, Blackfriars Road, London, S.E.1. 8376

LARGE quantity 110-volt, 20-w., "ring" make M.F. Lamps, B.C., cheap.—Edwardes Bros., 20, Blackfriars Road, London, S.E.1. 8377

LEAD-covered and Armoured Cables, P.I. and V.I.R. various special lines at low prices.—Edwardes Bros., 20, Blackfriars Road, London, S.E.1. 8378

MOTOR Generator Sets and Convertors, all sizes and voltages from ½ kW up to 500 kW in stock.—Britannia Manufacturing Co., Ltd., 22/26, Britannia Walk, City Road, London, N.1. Telephone, Clerkenwell 5512, 5513 and 5514. 28

NAMEPLATES, Engraving, Diesinking, Stencils, Steel punches.—Stilwell & Sons, Ltd., 153, Far Gosford Street, Coventry. 14

NEW totally enclosed SCR Motor, 5 h.p., 750 r.p.m., 400/3/50, E.C.C.—Alfred Adams & Co. Ltd., Reliance Works, West Bromwich, Staffs. 2776

PHONE 98 Staines. 400-kW Belliss Steam Set; 50-kW Hindley ditto, 440/220 volts D.C.; 60-kW Allen Crude Oil Set, 220 volts D.C.; Ruston ditto, 7½ kW, 110 volts; 45-kW Belliss Steam Set, 220 volts; 35-h.p. Ruston Crude Oil Engine.—Harry H. Gardam & Co. Ltd., Staines. 30

PORCELAIN Insulators and Spindles, also Cleats, cheap.—Edwardes Bros., 20, Blackfriars Road, London, S.E.1. 8379

RECOVERED L.C. and Armoured Cable; various lengths useful to contractors; .5 three-core; .0225 twin and three-core; .1 twin; .15 single and twin.—Slough Estates Ltd., Trading Estate, Slough. 2743

ROTARY Converter, 125 kW, "L.D.M.," 6,000 v. A.C./230 v. D.C., 1,000 revs., with Switchgear.—Greenhalgh Bros., Burton's Field Mill, Atherton, M/cr. 2786

ROTARY Converters in stock, all sizes; enquiries invited.—Universal Electrical, 221, City Road, London, E.C.1. 16

SINGLE-core V.I.R. Braided Flexible, heavy insulated, carry 24 amps., cheap.—Edwardes Bros., 20, Blackfriars Road, London, S.E.1. 8380

SPECIAL Offer, 37/.064 Twin C.T.S. Cable, 300-yard lengths; also quantity 7/.044 and 7/.064 single ditto.—Edwardes Bros., 20, Blackfriars Road, London, S.E.1. 8381

STAFF Time Checking and Job Costing Time Recorders (all makes) for quick cash sale. Exceptional condition. Write—Box 528, Smiths, 100, Fleet Street, London, E.C.4. 31

SWITCH and Fuse Units, Conduits and fittings, works requirements stocked.—Edwardes Bros., 20, Blackfriars Road, London, S.E.1. 8382

T.R.S. Cables and Flexible supplied to M.O.S. requirements.—Edwardes Bros., 20, Blackfriars Road, London, S.E.1. 8383

TIME Switches, various types and sizes. Enquire—Kippax Bros., Boot Street, Burnley. 2778

TRANSFORMERS, single and three-phase. All types up to 10 kVA.—Woden Transformer Co. (Phone, W'ton 22829), Thornley Street, Wolverhampton. 12

VACUUM Cleaner Motors, about 350, strongly made, well finished, new and unused, for the external bag type of cleaner, about ⅛th h.p., assorted voltages, 200/20 v., 230/50 v.—Vacuums, Ltd., 30, Hartopp Road, Sutton Coldfield. 8328

5 tons of new condition V.I.R. Cable, 153/.072, 50-ft. lengths, 600 amp. 400-kW "Allen" Turbo-Generating Set, 220/250 volt D.C. 250-kW Motor Generating Set, input 6,600/3/50, output 440/550 volt D.C.—Stewart Thomson & Sons, Fort Road, Seaforth, Liverpool, 21. 20

110-v. A.C. single-phase Meters, Ferranti, bakelite cases. Enquiries—Kippax Bros., Boot Street, Burnley. 2777

ARTICLES WANTED

DIESEL Electric Self-starting Plant by Lister, 110/120 volts, from 9 to 15 kW. With or without batteries.—A. W. Harrisson, Brook House, Tetford, nr. Horncastle, Lincs. 8366

MOTOR Generator Sets required, 100 kW and 200 kW, 110 volts D.C., with either 3-phase A.C. motors direct coupled or 400/480 volts D.C. motors.—Britannia Manufacturing Co., Ltd., 22/26, Britannia Walk, City Road, London, N.1. 2749

WANTED, Generating Plant, 40 kW, Diesel driven, 480 volts D.C. Particulars and price to—J. F., Staffa Works, Staffa Road, E.10. 2770

WANTED, Rotary Converters, any size.—Universal, 221, City Road, London, E.C.1. 22

15-h.p. Enc. Ven. D.C. Motors, 240 volts, compound preferred, 700 revs. approx. Two wanted.—Box 2761, c/o The Electrical Review.

75-kVA Alternator, 440/3/50, speed approx. 720 r.p.m. Details with age, makers, price, etc., to—George Blay, Ltd., Honiton, Devon. 8372

100-volt D.C. Dynamos, 100 kW up to 200 kW.—Britannia Manufacturing Co., Ltd., 22/26, Britannia Walk, City Road, London, N.1. 2748

110-volts direct current Desk or Cabin Fans required. Any quantity.—Box 2787, c/o The Electrical Review.

AGENCIES

MANUFACTURERS' Agents, covering the whole of Great Britain and Colonies, are desirous of contacting manufacturers with a view to sole selling rights (either commission or buying), post-war arrangements considered.—Box 23, c/o The Electrical Review.

MANUFACTURERS of Relays require representatives on agency terms in the Newcastle, Bristol and South Wales districts. State fullest particulars.—Box 2758, c/o The Electrical Review.

WORK WANTED AND OFFERED

WORK WANTED—

COIL WINDING, ASSEMBLY, ETC.

WORK of national importance, e.g., any type of Electrical Coil Winding, Assembly, Light Engineering, or other type, required by firm with large factory in Lancs. (A.I.D. approved). Write—Box 2782, c/o The Electrical Review.

ARMATURE Winding a speciality.—Kingsland Electric Service, 111, Clarence Rd., E.5. AMH. 4166. 8369

FRACTIONAL H.P. Motor Repairs. Electric Tools, Vacuum Cleaners, Hair Dryers, etc., repaired, rewound and rebuilt by experts.—Walter Crane, Electrical Engineer, Greencoat House, Westgate, Wakefield. 8348

REWINDING and Repairs. We specialise in rewinding, etc., Electric Tools and small Motors. Prompt attention and guaranteed work.—Southern Ignition Co. Ltd., 190, Thornton Road, Croydon. Phone, THOrnton Heath 4276/7/8. 40

EDUCATIONAL NOTICES

LATEST A.M.I.E.E. RESULTS

IN the recent Examinations held by the Institution of Electrical Engineers 416 Candidates sat who had taken B.I.E.T. courses. Of these 397 were successful in passing the examinations. We believe this record of 397 successes out of 416 entrants has never before been approached by any oral or correspondence tutorial organisation, and indicates the very high efficiency of the modern system of Technical Training which we have laid down.

The B.I.E.T. tutorial organisation is waiting to assist you either with a short specialised course or complete training for a recognised examination.

We have available a large full-time staff of instructors, while the efficiency of our extensive organisation is a byword among engineers.

WE GUARANTEE—"NO PASS—NO FEE"

May we send a copy of "ENGINEERING OPPORTUNITIES"? Containing a great deal of useful advice and detailed information on over 200 Home-Study Courses and examinations, this handbook is of very real value to the ambitious engineer.

Our highly informative handbook will be sent FREE and post free on request.

BRITISH INSTITUTE OF ENGINEERING TECHNOLOGY

Established 1927—over 140,000 students,

12, Shakespeare House, 17, 18 & 19, Stratford Place, Oxford Street, London, W.1.

8318

MISCELLANEOUS

DON'T disclose your plans. Produce blue prints and black line copies, etc., in your own office without glass frame, privately and economically. "Arcoflex" Copiers from 28 shillings. As supplied to H.M. Government. Priority permit not necessary. List for 2d. stamp. —W. E. Boughton, 53, Kenley Road, Merton, London, S.W.19. 2638

LESLIE Dixon & Co.; and Electradix Radios. New address: 19, Broughton Street, Queenstown Road, Battersea, S.W.8. Telephone, Macaulay 2159. Nearest Rly. Sta.: Queen's Road, Battersea (S.R.). 18

BATTERY Chargers Modernised. Your old Charger made like new by specialists. Conversion from valve to metal rectification. Send for interesting leaflet "Q.D." on this service.—Runbaken Electrical Products, Manchester, 1. 45

STAFF Identity Passes that Embody the Photographs of employee, now being supplied to firms on Government contracts. Utility Installations. Forgery proof; Celluloid Encased; Inexpensive; any size staff; anywhere; distance no object. Write for particulars and specimens from—Miles & Kaye, Ltd., Pass Specialists, 9, Southampton Place, High Holborn, London, W.C.1. Est. over 50 years. 2665

'Phone: Molesey 556.

MILD STEEL
CABLE HANGERS AND RACKS.

ROBERT McGREGOR & Co.,
ALPINE STEEL WORKS,
EAST MOLESEY, SURREY.

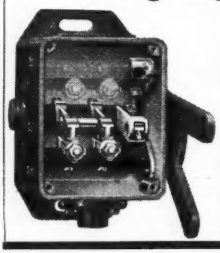
FLASHLIGHT BULBS

For Torches & Cycles, etc.

Wireless Bulbs
Torch Cases, Batteries
Electric Lamps
Delivery from Stock

SUPLEX LAMPS LIMITED
50, GRAY'S INN ROAD, LONDON, W.C.1
Tel. HOL. 0225

The right-up-to-date



LIMIT SWITCH
MAJOR & MINOR
Write to:
DALYTE ELECTRICAL CO.
Deco Engineering Works,
WEST ROW,
N. KENSINGTON,
LONDON, W.10
Phone: Ladbroke 3066-7

ALUMINIUM-BRONZE
ALUMINIUM-SILICON
ALUMINIUM, BRASS
AND WHITEMETAL

DIE CASTINGS

LET US SEND YOU SAMPLES OF OUR WORK FOR YOUR INSPECTION

NON-FERROUS DIE CASTING CO. LTD.
North Circular Road, London, N.W.2
Telephone: GLAdstone 6377

P&B

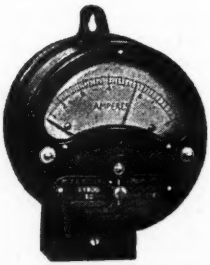
MAXIMUM DEMAND INDICATOR

FOR CONSUMERS' INSTALLATIONS

HSB PATTERN IN BAKELITE CASE

CAPACITIES 2·5 TO 100 AMPERES

TIME LAG 15, 20 or 30 MINUTES



PRICE & BELSHAM LTD
MAKERS OF MAXIMUM DEMAND INDICATORS
TAMWORTH LANE WORKS, MITCHAM, SURREY

Guaranteed SECOND-HAND ELECTRIC MOTORS

400/440 VOLTS, 3-PHASE, 50 CYCLES

H.P.	MAKER	SPEED	TYPE	BEARINGS
525	Mather & Platt	420	S.R.	Pedestal
400	English Electric	600	S.R.	2 Pedestal
400	Phœnix	487	S.R.	2 Pedestal
350	English Electric	1,500	Auto. Syn.	Endshield B.B.
250	Metro-Vick	485	S.R.	,, R.O.
250	Newton	484	S.R.	,, ,,
200	Crompton Parkinson	585	S.R.	2 ,, B.B.
200	B.T.H.	488	S.R.	,, R.O.
190	Holmes	975	S.R.	2 ,, ,,
145	Westinghouse	290	S.R.	2 ,,
100	English Electric	416	S.R.	2 ,, B.B.
100	Metro-Vick	365	S.R.	B.B.
100	Crompton Parkinson	300	Auto. Syn.	2 ,, ,,
100	,, ,,	240	S.R.	2 ,, ,,
80	E.C.C.	720	S.R.	2 ,, R.O.
75	Mather & Platt	720	S.R.	2 ,, ,,
70	Westinghouse	960	S.R.	2 ,, ,,
70	McFarlane	600	S.R.	2 ,, ,,
70	G.E.C.	321	S.R.	2 ,, ,,
52½	Brush Elec.	960	S.R.	2 ,, ,,
50	Brook	750	S.R.	2 ,, B.B.
50	E.C.C.	580	S.R.	2 ,, ,,
45	Verity	715	S.R.	2 ,, R.O.

Established 1834

GEORGE COHEN
Sons & Co. Ltd.

Wood Lane, London, W.12 and Stanningley, near Leeds

Telephone : Shepherds Bush 2070 *Telephone : Pudsey 2241*

Telegrams : Omniplant, Chisk, London *Telegrams : Coborn, Leeds*

AND AT BIRMINGHAM, SHEFFIELD, GLASGOW, NEWCASTLE, MANCHESTER, SOUTHAMPTON, BATH, BELFAST, ETC.

CONDUIT
BRASS ADAPTORS
for
FLEXIBLE METALLIC TUBE

These fittings are available with or without grub screws.
The range covers standard bores and conduit sizes.
Those with grub screws can be supplied female or male Conduit.

ALL SIZES OF BRASS BUSHES, EARTH CLIPS, CONDUIT FITTINGS.

METWAY PRODUCTS

Stocked by leading Wholesalers

For details ask for List No. 8541/E.R.

METROPOLITAN ELECTRIC SUPPLIES

Sole Proprietor: D. G. E. BARRIE

Metway Works, King St., Brighton

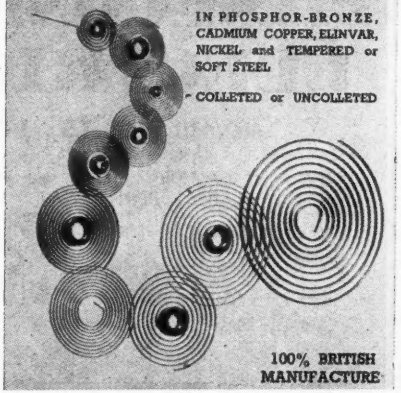
Phone: Brighton 4456. Grams: "Metway, Phone, Brighton"

HAIR SPRINGS

OF ALL TYPES and GRADES

IN PHOSPHOR-BRONZE, CADMIUM COPPER, ELINVAR, NICKEL and TEMPERED or SOFT STEEL

COLLETED or UNCOLLETED



100% BRITISH MANUFACTURE

During the war bulk quantities only of springs for essential purposes can be supplied

BRITISH PRECISION SPRINGS LTD.
317 Edgware Road, London, N.W.2

Telephone: CLAdstone 3333 *Telegraphic Address: NIVAROX, GOLD, LONDON*

PANILAX

REGISTERED TRADE MARK

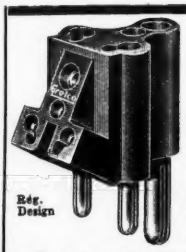
BONDED PAPER INSULATION OF HIGH MECHANICAL STRENGTH AND MOULDED RESIN WITHOUT FILLER. BOTH HAVE EXCELLENT ELECTRICAL PROPERTIES.

The **MICANITE & INSULATORS COMPANY LIMITED**

MIC

WALTHAMSTOW LONDON, E.17

Telephone: LARkswood 1044 (Pte. Br. Exch)



Reg. Design

Grelco

MULTI-PLUG ADAPTORS

ELEVEN TYPES

Fully illustrated descriptive folder on application

Phone: Molesey 3000-1

GRELCO Ltd., 91-93 Stanley Road, Teddington, Middx.

DURAWIRE YOUR ELECTRICAL WORK AND BE SURE

ELECTRICAL CONDUCTORS

Non-ageing. Non-inflammable. Oil-proof. Damp-proof and Resistant to all atmospheric and tropical conditions

High dielectric properties

Unaffected by a great number of acids and chemicals

In all colours and standard sizes and various grades of flexibility.

"SS" Durawinflat
"SS" Durathreeflat
"SS" Durawire with Two Insulating Layers
"SS" Durawire Cable
"SS" Multicore Duracables

DURATUBE & WIRE, LTD.
FAGGS ROAD, FELTHAM, MIDDLESEX.
Telephone FELtham 3332

COSWAY

DISCONNECTING BOXES
DISTRIBUTION BOXES
SOLID FILLED, POLE & DIVIDING BOXES
SUBSTATION & INDUSTRIAL PANELS

COSWAY DUDLEY

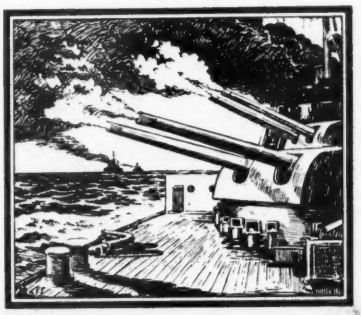
Cosway (Sales) Ltd. Dudley Wood. Telephone 2509 (Dudley) Cosway Paragon Dudley

ELECTRIC POWER?

. . . **THIS IS 1942.** Hand haulage clogs production. With their larger load-moving capacity at faster speeds, the strong, silent Electricars enable labour to be released for other work. Speed up production. Power-haul with Electricars.

ELECTRICAR *INDUSTRIAL* **TRUCKS**

ELECTRICARS LIMITED
(In association with Crompton Parkinson Ltd.)
Sales Office: Electra House, London, W.C.2
Temple Bar 5911. *Crompark, Estrand, London*

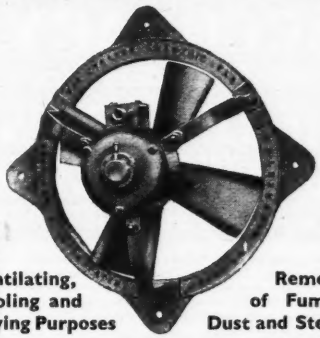


Power you can Depend on—

YOUNG BATTERIES

YOUNG ACCUMULATOR COMPANY LTD.
In Association with Crompton Parkinson Ltd.
SALES OFFICE: ELECTRA HOUSE, LONDON, W.C.2
Telephone: Temple Bar 5911 *Telegrams: Crompark, Estrand, London*

CYCLONE *Electric*
PROPELLER FANS



For **Ventilating, Cooling and Drying Purposes**

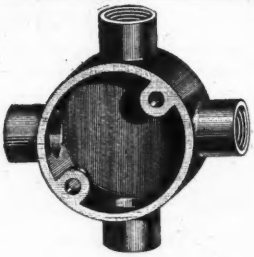
For **Removal of Fumes, Dust and Steam**

The Fans are reversible—the motors are liberally rated and built to B.E.S.A. standards.
Your enquiries are invited—Quote Ref. E/P.

MATTHEWS & YATES LTD.
SWINTON, LANCS. AND LONDON
GLASGOW · LEEDS · BIRMINGHAM · CARDIFF

THIS IS ONLY ONE OF THE MANY

CONDUIT FITTINGS



IN

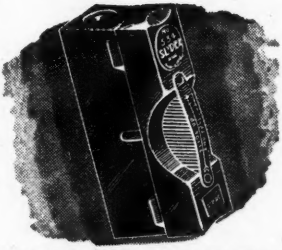
ARBAD BRAND

Details of the full range can be obtained from any Wholesaler.

HARTLEY & BALDWIN LTD.
TOWER CHAMBERS, CHURCH GATE
LEICESTER

★ **More is required for protection than merely a detachable device to hold the fuse wire in circuit. The SLYDLOK Fuse is designed to meet the needs of to-day—questions of vibration, neglect, space, identification and adaptability are *all* answered by the SLYDLOK design.**

SLYDLOK FUSES



VIBRATION PROOF

EDWARD Wilcox & CO LTD

Whilst producing to maximum capacity, orders can be dealt with in rotation.

Sharston Road, Wythenshawe, MANCHESTER

dm813

The Key to Efficiency is —

ACCURACY

WE SPECIALISE IN

FIBRE JOINTS AND WASHERS

OF GUARANTEED ACCURACY

Also makers of "Corrujoint" All-Metal Gaskets, Taylor's Corrugated Packing, Copper Joints and Washers, Compressed Asbestos Jointings, Shims and Tab-washers to specification.

Write for Brochure

THE **CORRUGATED PACKING AND SHEET METAL CO. LTD.**
GATESHEAD-ON-TYNE

PHONE: GATESHEAD 71785
GRAMS CORRUJOINT GATESHEAD

HAND-TRUCKS

of Every Description.

Tyne Truck & Trolley Co. Ltd.

66/68 Northumberland Street,
Newcastle-on-Tyne I.
Telephone 24196

DON'T BUY ELECTRIC LAMPS
USE THE
"**LOX-ALL**"
PATN.
UNIVERSAL LAMP LOCK
CONTINUALLY SAVES COST OF LAMPS
MANUFACTURED BY
J. A. BROOK LTD. LORD STREET, HUDDERSFIELD.

46-range Model 7
Universal AvoMeter

HIGH accuracy, simplicity, exceptional versatility and proven reliability have won for "AVO" Instruments a world-wide reputation for supremacy wherever rapid precision test work is demanded. There is an "AVO" Instrument for every essential electrical test.

Some delay in delivery of Trade Orders is inevitable, but we shall continue to do our best to fulfil your requirements as promptly as possible.

Sole Proprietors and Manufacturers:

AUTOMATIC COIL WINDER & ELECTRICAL EQUIPMENT CO., LTD., Winder House, Douglas Street, London, S.W.1. *Phone:* Victoria 3404-7

DS Trade Mark

H.C. COPPER WIRES AND STRIP

ENAMELLED
TO B.S.S. 156—1936
ENAMELLED
AND
PAPER LAPPED
VARNISHED OVERALL
COTTON COVERED

Samples and Prices on Application

MADE BY:—

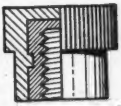
F. D. SIMS LTD.

HAZELHURST WORKS, RAMSBOTTOM, LANCS

Telegrams: "SIMS, RAMSBOTTOM." *Telephone:* RAMSBOTTOM 2213/4

LITHO LITE

TERMINAL NUTS and SWITCH HANDLES



LITHOLITE, BAKELITE, etc. MOULDINGS

Moulds made in own Works, ensuring personal supervision of all work entrusted to us.

• • •

Standard Lines on application. Enquiries invited for Customers' own designs or patterns. Extensive and Modern Factory.

LITHOLITE INSULATORS
& ST ALBANS MOULDINGS LIMITED
SANDOWN ROAD, WATFORD, HERTS.
TELEPHONE WATFORD 4494

THE COIL DETERMINES PERFORMANCE

REGISTERED
VARLEY
TRADE MARK

★ ACCURACY
★ UNIFORMITY
★ RELIABILITY
★ SERVICE
★ COMPETITIVE PRICES

EXPRESS DELIVERIES DAILY IN LONDON AREA

The VARLEY MAGNET COMPANY
BLOOMFIELD ROAD
Telephone: WOOlwich 1422 (6 lines) **WOOLWICH, S.E.18**

Index to Advertisers

The fact that goods made of raw materials in short supply owing to war conditions are advertised in this Journal should not be taken as an indication that they are necessarily available for export

	PAGE
Astor Boisselier & Lawrence Ltd.	54
Automatic Coil Winder & Elecl. Equip. Co. Ltd.	73
Babcock & Wilcox Ltd.	36
Belling & Co. Ltd.	12
Black & Decker Ltd.	19
Bowthorpe Electric Co. Ltd.	60
Braithwaite & Co. Engineers Ltd.	8
Britannic Electric Cable & Construction Co. Ltd.	61
British Aero Components Ltd.	53
British Mica Co. Ltd.	76
British Precision Springs Ltd.	70
British Thomson-Houston Co. Ltd.	Cover i & 5
Brook, J. A., Ltd.	72
Burdette & Co. Ltd.	40
Burgess Products Co. Ltd.	Cover iii
Cable Makers' Association	Cover ii
Canning, W., & Co. Ltd.	2
Churchouse, C. M., Ltd.	76
City Electrical Co.	76
Cohen, George, Sons & Co. Ltd.	69
Connolly's (Blackley) Ltd.	75
Constructors Ltd.	60
Corrugated Packing & Sheet Metal Co. Ltd.	72
Cosway (Sales) Ltd.	70
Crabtree, J. A., & Co. Ltd.	15
Crompton Parkinson Ltd.	42, 49 & 59
Cryselco Ltd.	30
Dalyte Electrical Co.	68
Davidson & Co. Ltd.	29
Desoutter Bros. Ltd.	33
Donovan Electrical Co. Ltd.	78
Dryden, Thomas, & Sons Ltd.	78
Duratube & Wire Ltd.	70
Edison Swan Cables Ltd.	28
Electric Construction Co. Ltd.	31
Electricars Ltd.	71
Elexcel Ltd.	54
Ellison Insulations Ltd.	78
Everett Edgcumbe & Co. Ltd.	38
Ferranti Ltd.	11 & 27
Fisher, Marcus, & Co.	60
Geipel, William, Ltd.	44
General Electric Co. Ltd.	6 & 62
Gent & Co. Ltd.	17
Gilson, D., & Co. Ltd.	78
Glenfield & Kennedy Ltd.	Cover iv
Glover, W. T., & Co. Ltd.	20
Grelco Ltd.	70
Harboro' Rubber Co. Ltd.	71
Hartley & Baldwin Ltd.	72
Heatrae Ltd.	1
Henley's, W. T., Telegraph Works Co. Ltd.	13
Higgs Motors Ltd.	25
Hopkinsons Ltd.	75
Howells (Electric Motors) Ltd.	Cover iii
Igranic Electric Co. Ltd.	43
Ioco Rubber & Waterproofing Co. Ltd.	56
Jones, Samuel, & Co. Ltd.	74
Legg (Industries) Ltd.	48
Litholite Insulators & St. Albans Mouldings Ltd.	73
Liverpool Electric Cable Co. Ltd.	26
Matthews & Yates Ltd.	71
McGregor, Robert, & Co.	68

(*Continued on page* 76)

? *Is the marking of your products a serious problem in your business?*

If so, you need

PEERLESS LEAF

Used extensively throughout the Trade for marking Instrument Dials, Polarity Indicators, etc., etc.

Write for details :—

THE PEERLESS GOLD LEAF CO. LTD.

(DEPT. A)

FAIRFIELD WORKS, BOW, LONDON, E3

MAKERS OF ALL TYPES OF

SYNTHETIC RESIN PAPERS

FOR THE MANUFACTURE OF LAMINATED SHEETS AND TUBES

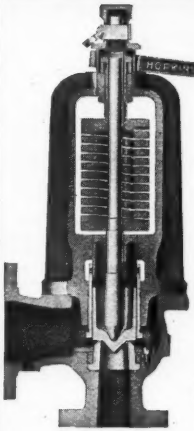
IMPREGNATED AND COATED

BUTTERFLY BRAND

SAMUEL JONES & Co. LTD.

16/17 NEW BRIDGE ST. EC4 CENTRAL 6500

MAXIMUM DISCHARGE CAPACITY

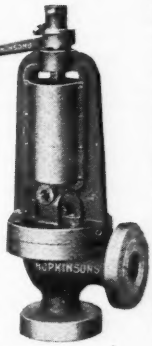


HOPKINSONS' "HYLIF" SAFETY VALVE

gives maximum discharge capacity and reduces the number of safety valves required on the modern high-duty boiler.

More than 50 installations operating at pressures of 600 lb. per square inch and above are equipped with "Hylif" Safety Valves.

Used by most high-pressure Power Stations in Great Britain.



HOPKINSONS LIMITED — HUDDERSFIELD

London: 34 Norfolk Street, Strand, W.C.2

A591/3549

CONNOLLY'S

Adhesive Tape

Available in two grades—"Blackley" Adhesive Tape for the very best work where only the best will do. A really super tape. "Limpet" Adhesive Tape for the next best job where a high degree of quality is required but where price is an important consideration. One or other of these famous Adhesive Tapes will completely fill your requirements. "Blackley" or "Limpet" on every job.

CONNOLLY'S (BLACKLEY) LTD., MANCHESTER 9

Telephone: Cheetham Hill 1801 (3 lines)
Telegrams: "Connollys, Blackley."

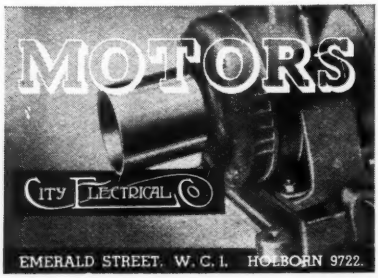
London Office: **OSWALDESTRE HOUSE, STRAND, W.C.2**

Telephone: TEMple Bar 5506–7
Telegrams: "Syllennoc, Estrand, London."

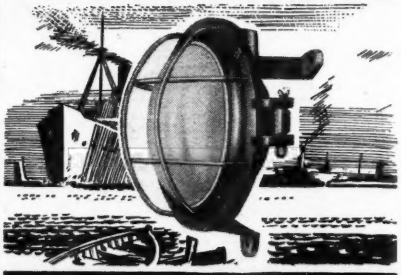
Index to Advertisers

(*Continued from page* 74)

	PAGE
M.C.L. & Repetition Ltd.	1
Metropolitan Electric Supplies	70
Metropolitan-Vickers Electrical Co. Ltd.	4 & 32
Micanite & Insulators Co. Ltd.	70
Midland Electric Mfg. Co. Ltd.	35
Ministry of Supply	47
Ministry of War Transport	34
M.K. Electric Ltd.	48
Morse Chain Co. Ltd.	58
Nalder Bros. & Thompson Ltd.	3
Non-Ferrous Die Casting Co. Ltd.	68
Parker, Frederick, Ltd.	61
Parmiter, Hope & Sugden Ltd.	77
Parsons, C. A., & Co. Ltd.	16
Parsons, C. E., Ltd.	22
Parsons, C. H., Ltd.	45
Payne, P. P., & Sons Ltd.	18
Peerless Gold Leaf Co. Ltd.	74
Photostat Ltd.	58
Premier Electric Heaters Ltd.	10
Price & Belsham Ltd.	68
Pultra Ltd.	52
Pyrotenax Ltd.	50
Record Electrical Co. Ltd.	44
Red Cross Penny-a-Week Fund	55
Reyrolle, A., & Co. Ltd.	14
Robinson, Lionel, & Co. Ltd.	37
Ross Courtney & Co. Ltd.	1
Rotherham & Sons Ltd.	46
Sanders, W., & Co. (Wednesbury) Ltd.	57
Scholes, George H., & Co. Ltd.	46
Scott, Hugh J., & Co. (Belfast) Ltd.	50
Sheffield Smelting Co. Ltd.	54
Siemens Brothers & Co. Ltd.	23
Simmonds Aerocessories Ltd.	41
Sims, F. D., Ltd.	73
Standard Telephones & Cables Ltd.	24
Sterling Varnish Co. Ltd.	51
Sturtevant Engineering Co. Ltd.	7
Suplex Lamps Ltd.	68
Tenaplas Ltd.	52
Thames Wire & Cable Co. Ltd.	60
Thew, Edward H., Ltd.	78
Tube Products Ltd.	21
Tyne Truck & Trolley Co. Ltd.	72
Varley Magnet Co.	73
Veritys Ltd.	39
Ward & Goldstone Ltd.	57
Wardle Engineering Co. Ltd.	56
Westminster Engineering Co. Ltd.	1
Westool Ltd.	76
Wilcox, Edward, & Co. Ltd.	72
Wolf, S., & Co. Ltd.	9
Young Accumulator Co. Ltd.	71
Zenith Electric Co. Ltd.	77

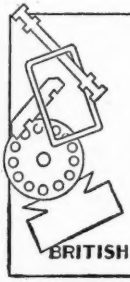


CMC
CHURCHOUSE



Lighting Fittings FOR *Merchant Ships*

C. M. CHURCHOUSE LTD., CLARENDON WORKS, CLARENDON CROSS, LONDON, W 11



MICA

DISCS
DIAPHRAGMS
ELEMENT STRIPS
CONDENSER PLATES
STOVE PANELS
RAW MICA
WASHERS
etc.

BRITISH MICA Co Ltd - BEDFORD.

TELEPHONE Putney 4281-3

TELEGRAMS Westolalco-Put London

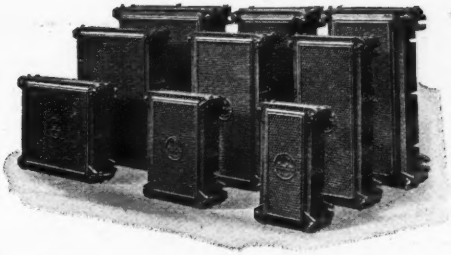
WESTOOL SOLENOIDS

POWER PERFORMANCE

YOUR LINK

WESTOOL LTD.

PUTNEY LONDON S.W.15



AEROFLEX Fluvent HOPE'S PATENTS

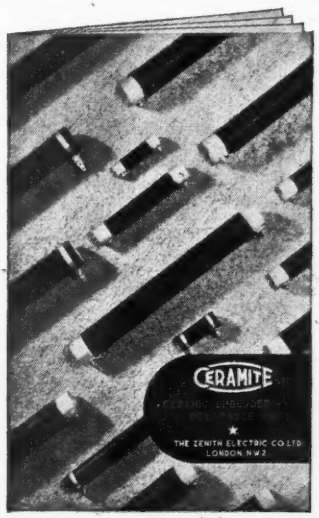
DISTRIBUTION BOARDS

Watertight Aeroflex-Fluvent small power distribution boards, incorporating Aeroflex high breaking capacity rewirable cartridge fuses, provide the qualities necessary to maintain the high efficiency required of wartime factories.

PARMITER, HOPE & SUGDEN LTD.

Longsight, Manchester 12. London : 34 Victoria Street, S.W.1

ZENITH (REGD. TRADE-MARK)



Improved Type

CERAMIC EMBEDDED RESISTORS

of the highest quality, complying with all Government Specifications

Please allow us to send you a copy of our descriptive catalogue

THE ZENITH ELECTRIC CO. LTD.

Zenith Works, Villiers Road
Willesden Green, London, N.W.2

Phone : WILlesden 4087-8-9
Grams : "Voltaohm, Phone, London"

D·GILSON & Co LTD
BILLET WORKS BILLET ROAD WALTHAMSTOW LONDON E 17

At present our effort
is devoted entirely to the manufacture of small screw machine products. We look forward to the time, however, when we can give you the same service and attention as we have done in the past

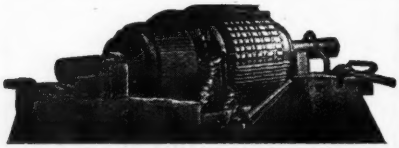
Engraved CAST and ENAMELLED PLATES

Enquiries are invited by the Empire's largest general engravers for—
ENGRAVED BRASS, CAST BRASS AND ALUMINIUM, ENAMELLED BRONZE AND CHEMICALLY ENGRAVED PLATES of all types in all languages

Samples and quotations for large or small quantities upon request. Phone or write.

Telephone 20221
Estd. EDWARD H. THEW LTD 1866
11, DEAN STREET NEWCASTLE-ON-TYNE

TUFNOL
Regd. Trade Mark
ELLISON INSULATIONS LTD.,
PERRY BARR, BIRMINGHAM 22



SERVICE! Day and Night. Electrical Installations. Re-winds and Re-designs
THOS DRYDEN & SONS LTD PHONE 4677 PRESTON

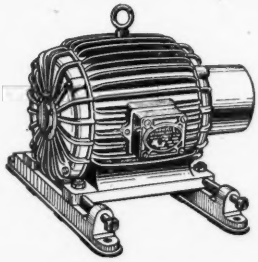
EARTHING CLIPS WITH SPECIAL BITE AND GRIP INTO TUBE OR ARMOURING

Note the tongue which ensures perfect and permanent contact. Easy to fix. Nuts cannot turn. All sizes from half to two inches
THE DONOVAN ELECTRICAL CO. LTD.
BIRMINGHAM 9
Electrical Manufacturers and Stockholders

Printed in Great Britain at THE CHAPEL RIVER PRESS, Andover, Hants, and published by ELECTRICAL REVIEW, LIMITED, at Dorset House, Stamford Street, London, S.E.1.

HOWELLS (ELECTRIC MOTORS) LTD.

VALE PLACE WORKS, HANLEY, STAFFS.



You can rely on a Howells Motor

LONDON: Palmers Green 5428.
MANCHESTER: Didsbury 4709.
BIRMINGHAM: Central 7909.
STOKE-on-TRENT 29624.
BRISTOL 43409.

THIS ACOUSTI-BOOTH IS A ZONE OF SILENCE FOR YOUR TELEPHONE

Put a Burgess Acousti-Booth in your noisiest shop and you'll be *amazed* at the "zone of silence" it provides. Noise will not interfere with your telephone service if your shop phones are in Acousti-Booths.

These booths have no doors, yet they are quiet inside because factory noise is soaked up by patented sound-absorbing walls. Hundreds of these doorless booths are in daily use in all kinds of factories. Easy to keep clean—no maintenance.

BURGESS ACOUSTI-BOOTH

BURGESS PRODUCTS COMPANY LTD.

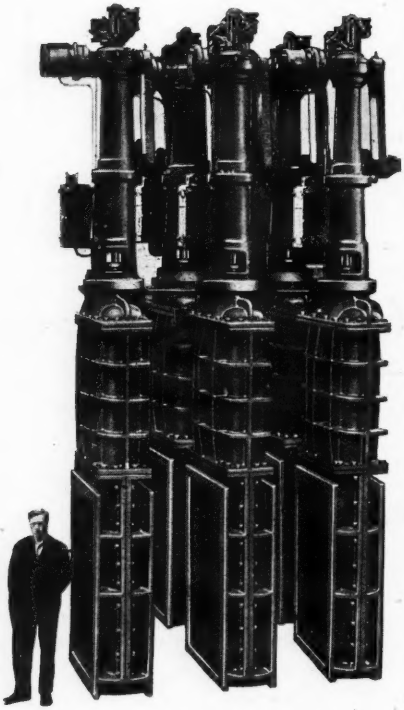
Acoustical Division, HINCKLEY, LEICS. *Phone: Hinckley 700 (3 lines)*

London Office: 72 Horseferry Road, S.W.1 Phone: Abbey 1868

Scottish Representatives: R. McCartney & Co., 142 Queen Street, Glasgow, C.1

Write to-day for Bulletin BP 131/E.R.

GLENFIELD SLUICES
FOR CIRCULATING WATER INTAKES



Any interruption of circulating water supply may entail the closing down of a whole power plant until a remedy has been applied, and it is therefore important to ensure that the regulating sluices are designed and constructed to give constant and reliable control of supplies in all conditions of service.

In the course of nearly a century of specialised experience in the design and construction of water control appliances, we have successfully overcome many difficult problems, and have been responsible for the design and construction of the control sluices for some of the largest and most important installations in the world. Our experience is at the service of engineers, and we are always ready to co-operate with them in the solution of any problems which they may encounter.

We illustrate a group of interesting Electrically Operated Culvert Penstocks recently made by us for a large pumping station in connection with an important Catchment Board Installation.

Six of these valves (which are 5 feet square) are fitted in concrete bypass culverts to the large axial flow pumps and allow flood water to gravitate through the station at low tide.

The penstocks are electrically operated and fitted with limit switches which allow fractional opening of the door at the limits of travel.

Provision is also made for emergency operation by hand. A Glenfield Patent Safety Electrical Interlocking Device is fitted to prevent any possibility of hand gear being used while the motor is in circuit.

FURTHER PARTICULARS GLADLY SENT ON REQUEST

Glenfield

GLENFIELD AND KENNEDY LIMITED KILMARNOCK